

FIG.2

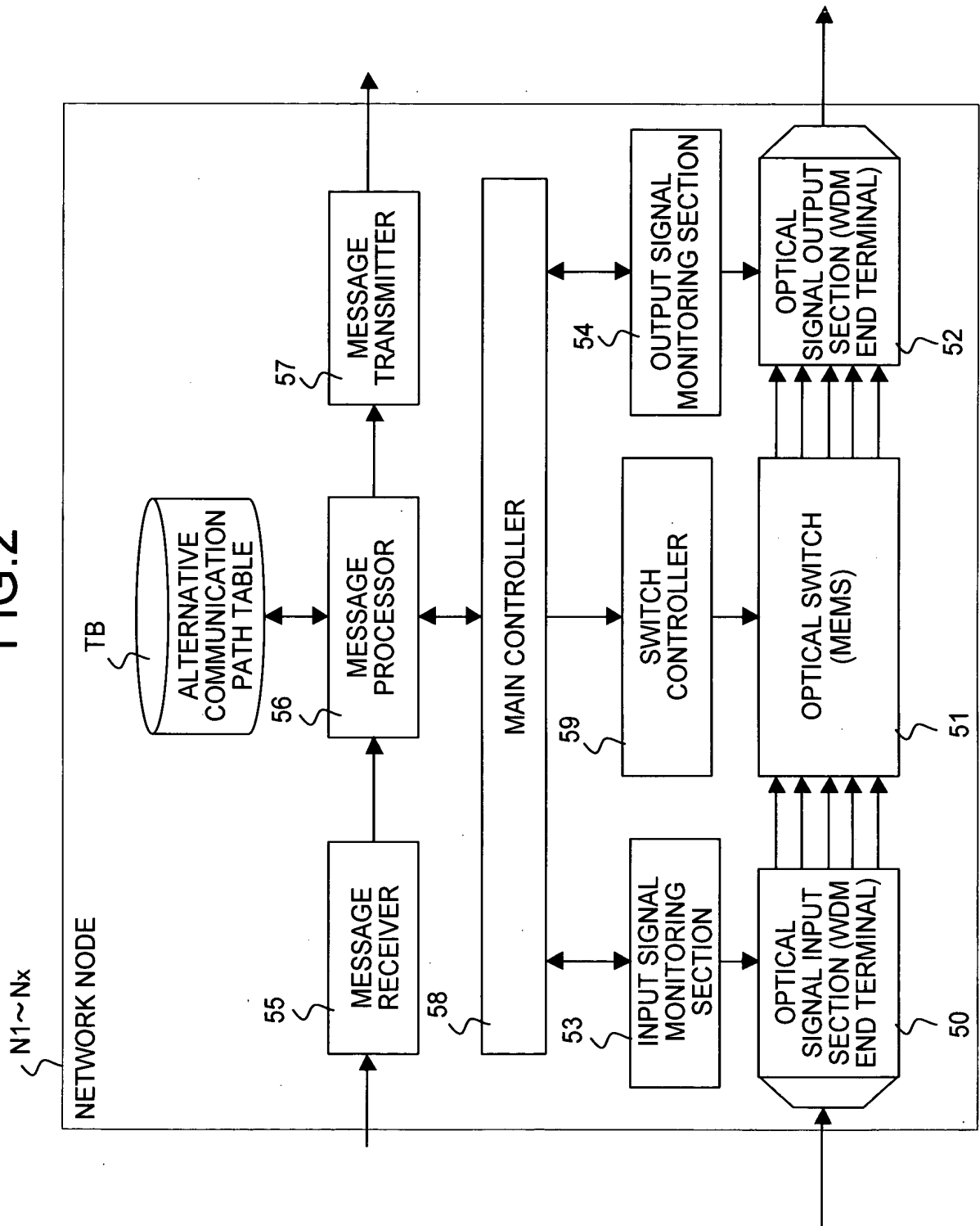


FIG.3

ζTB

FAILURE PORTION FAILURE CURRENT	COMMUNICATION PATH (NODE SERIES)	ALTERNATIVE COMMUNICATION PATH (NODE SERIES)	FAILURE DETECTED COMMUNICATION NODE
LINK L1 (BETWEEN N1 AND N2)	WP1 (N1 , N2)	SP1 (N1 , N4 , N5 , N2)	N2
	WP2 (N1 , N2 , N3 , N6)	SP2 (N1 , N4 , N5 , N6)	N2
	WP3 (N1 , N2 , N5 , N8)	SP3 (N1 , N4 , N7 , N8)	N2
	WP4 (N9 , N6 , N3 , N2 , N1)	SP4 (N9 , N8 , N7 , N4 , N1)	N1
	WP5 (N2 , N1 , N4)	SP5 (N2 , N5 , N4)	N1
LINK L2 (BETWEEN L2 AND N3)	...	...	...

FIG.4

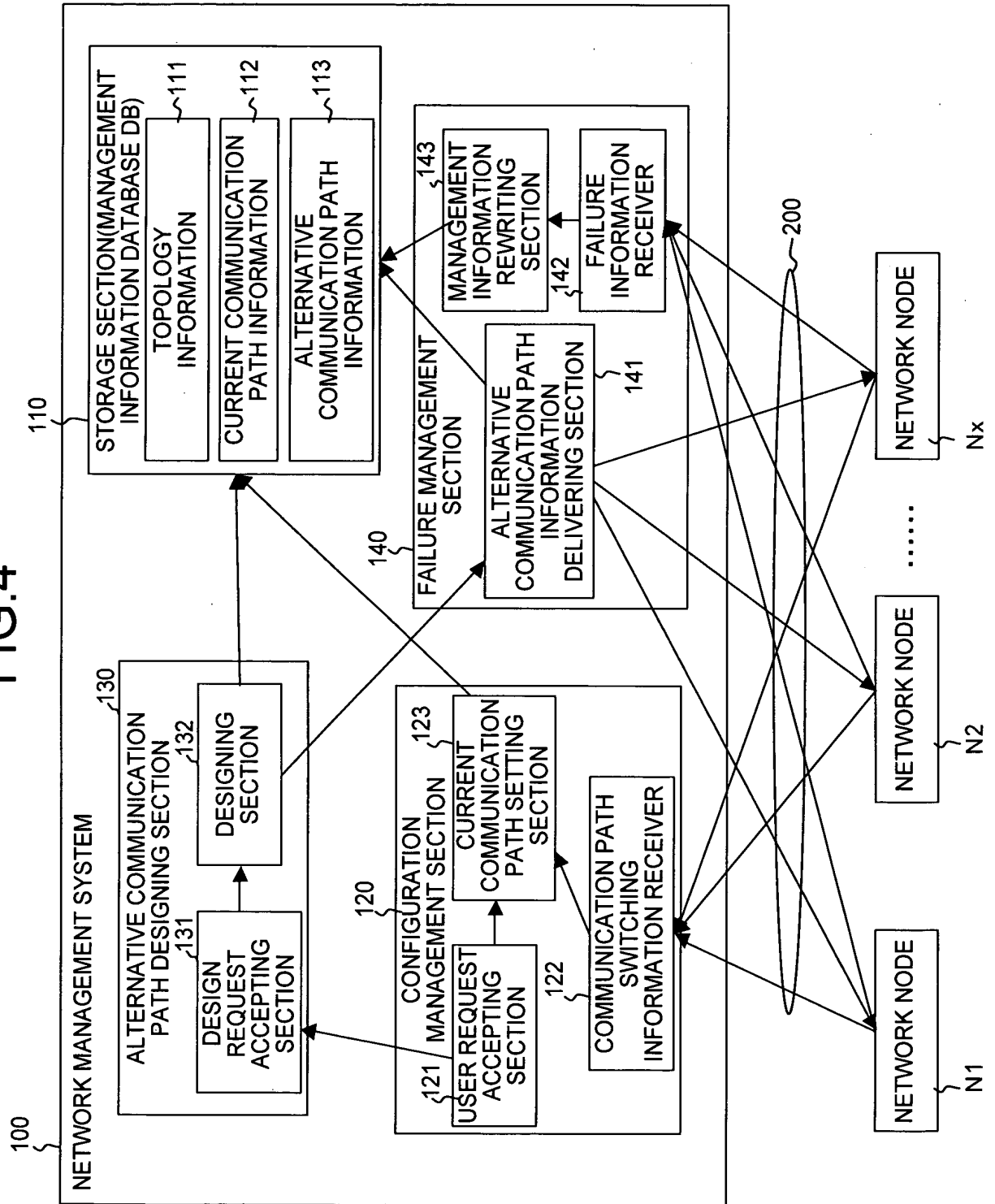


FIG.5

111A

NETWORK NODE	LATI- TUDE	LONGI- TUDE
N1	41.10	- 81.50
N2	33.72	- 117.90
...	...	...
Nx	47.62	- 89.97

111

111B

LINK	NETWORK NODE	NETWORK NODE	LENGTH (km)
L1	N1	N2	331
L2	N3	N5	185
...	...	...	...
Lx	N10	N12	169

FIG.6

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CURRENT COMMUNICATION PATH	STARTING POINT NETWORK NODE	END POINT NETWORK NODE	ROUTE NETWORK NODE SERIES	NUMBER OF CHANNELS
W P1	N1	N3	N2	1
W P2	N2	N5	N1、N2、N3、N6	2
...	...	...	N1、N2、N5、N8	...
W P <sub>x</sub>	N10	N13	N9、N6、N3、N2、 N1	1

FIG.7

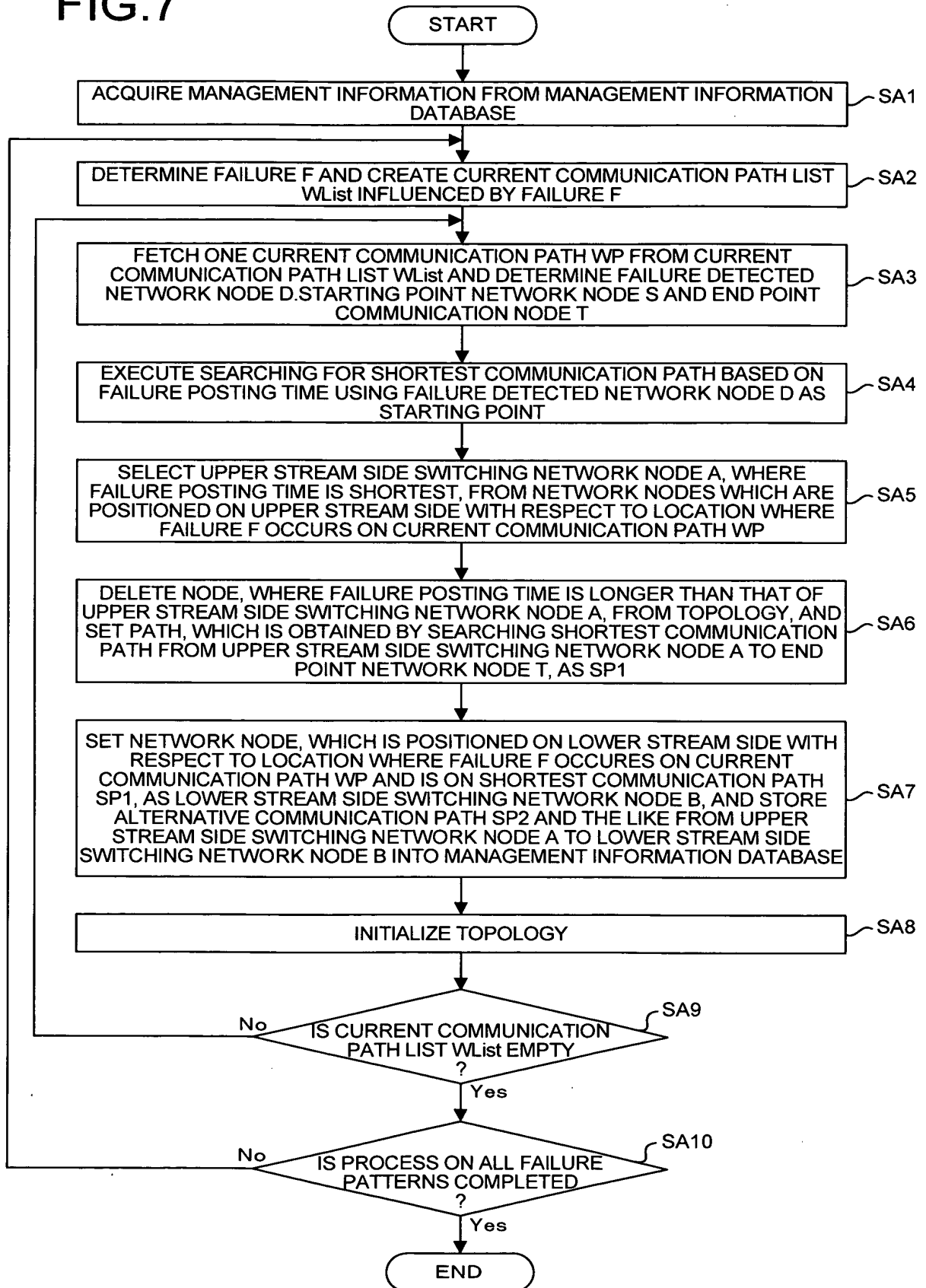


FIG.8

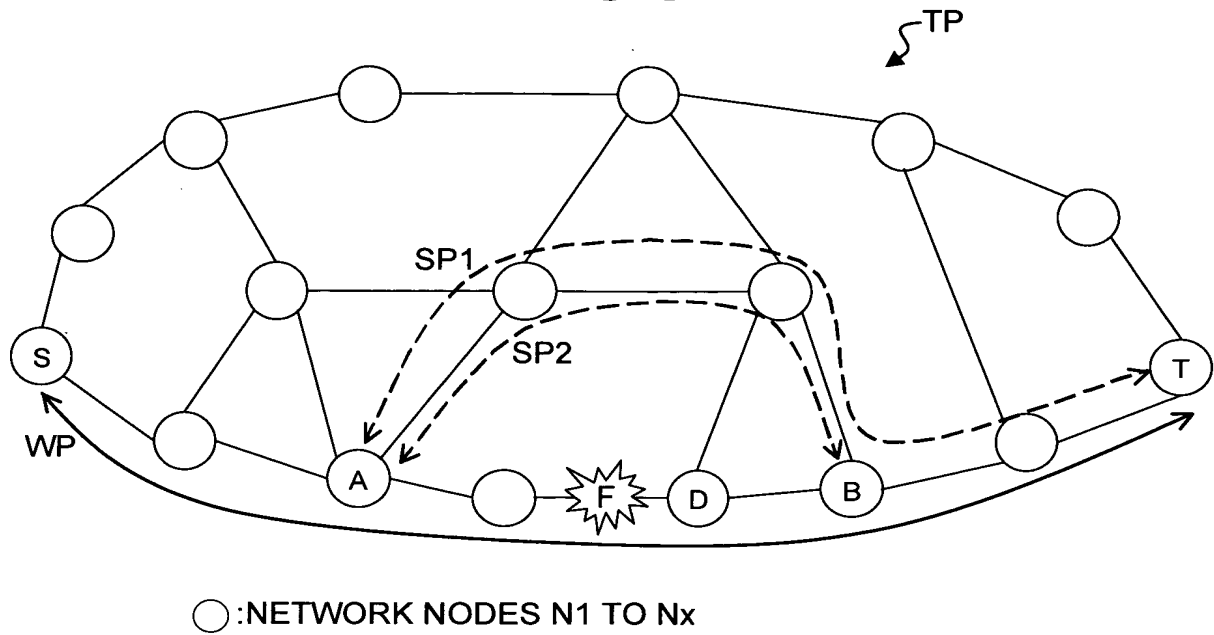


FIG.9

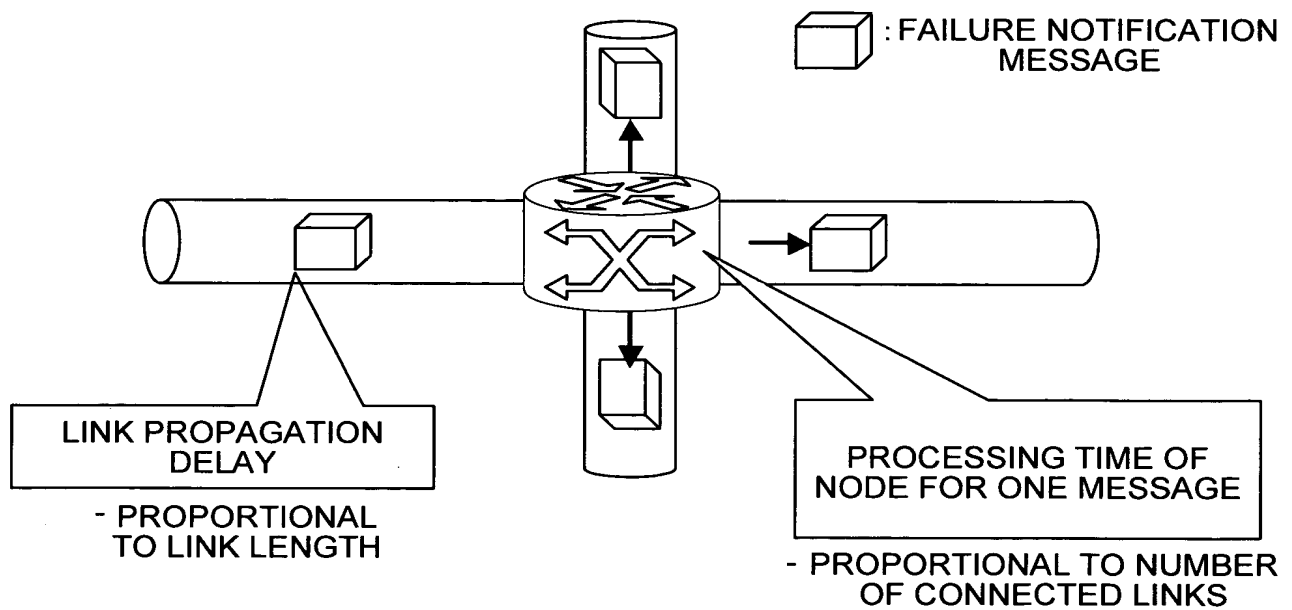


FIG.10

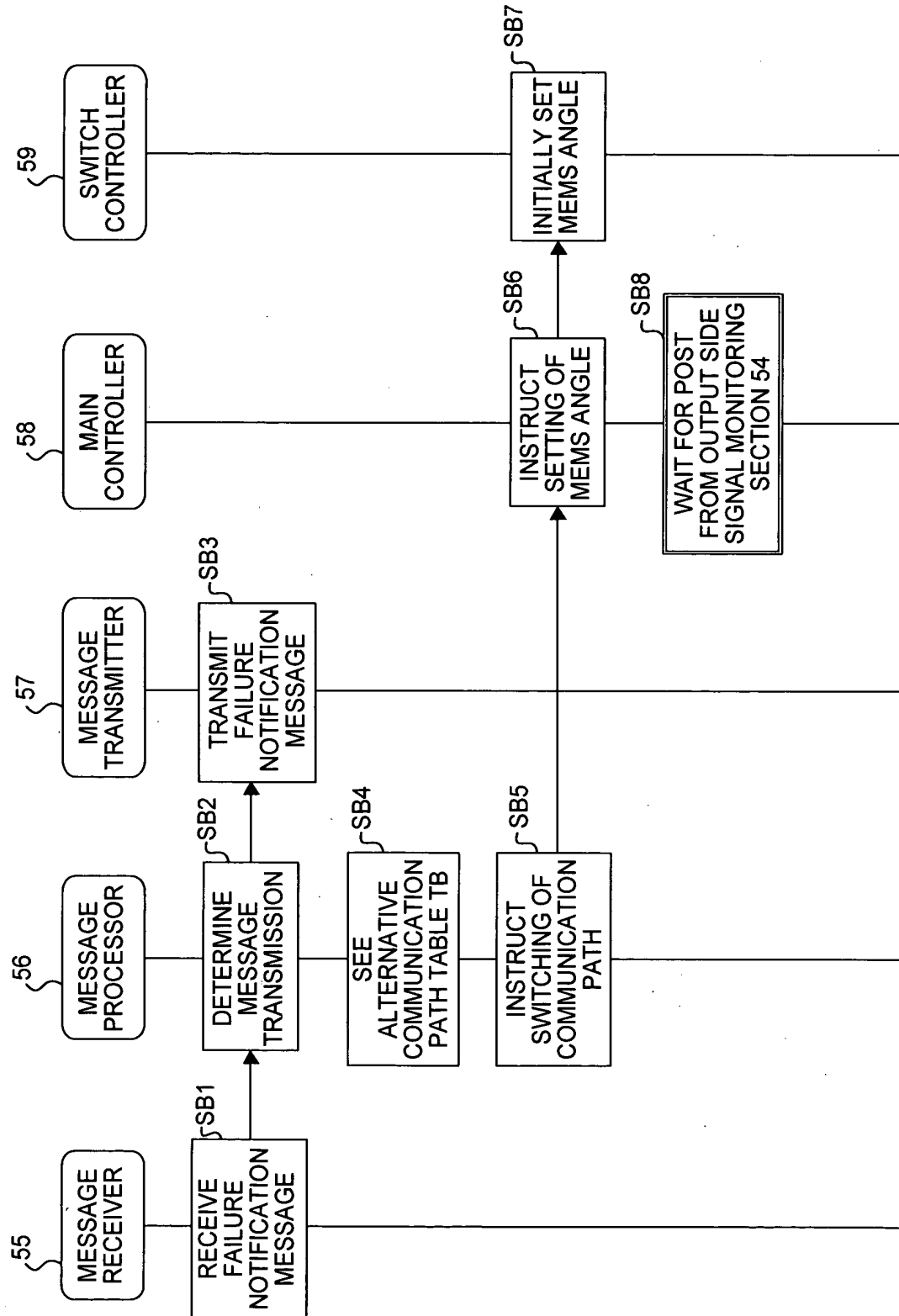




FIG. 11

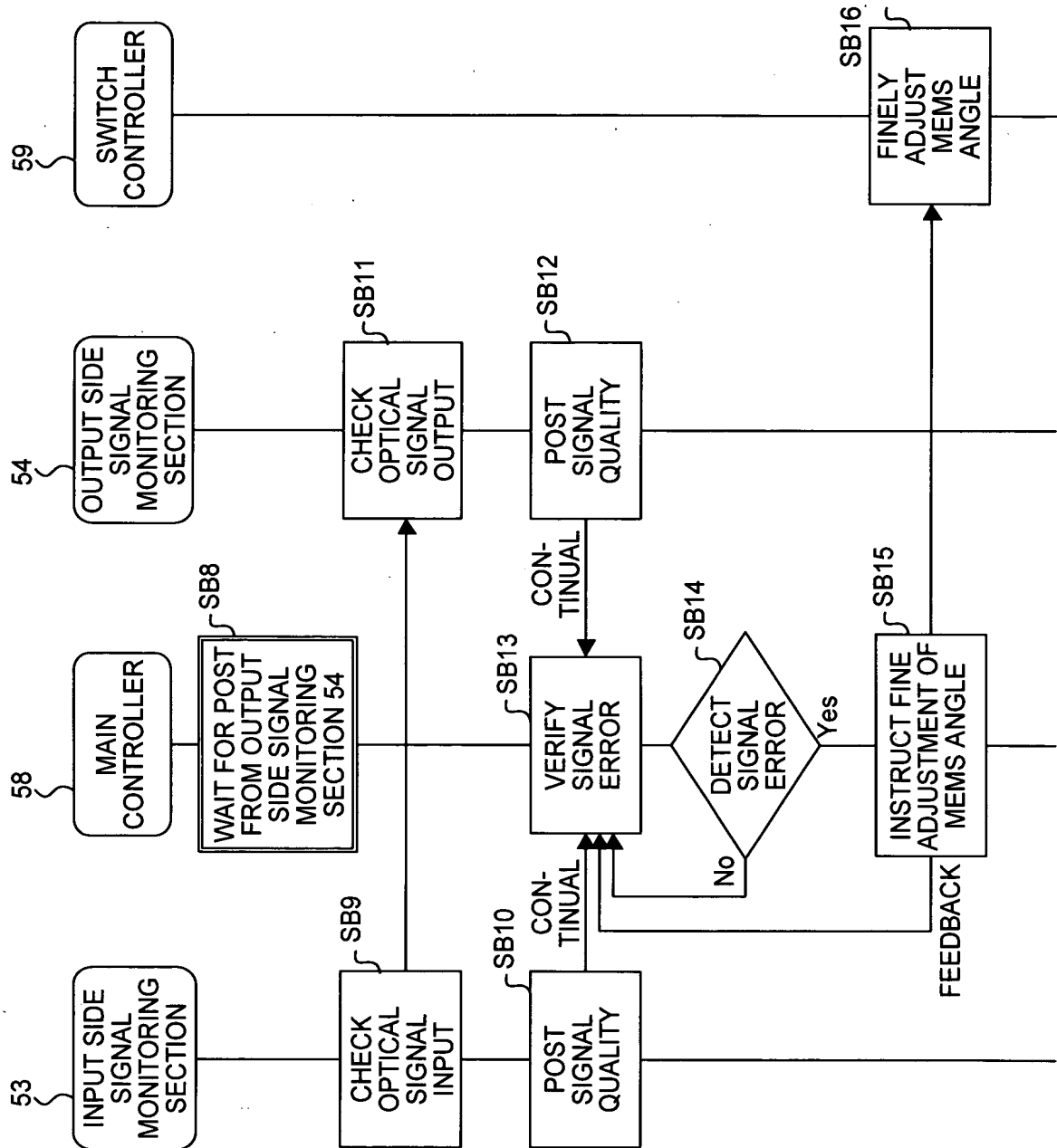


FIG.12

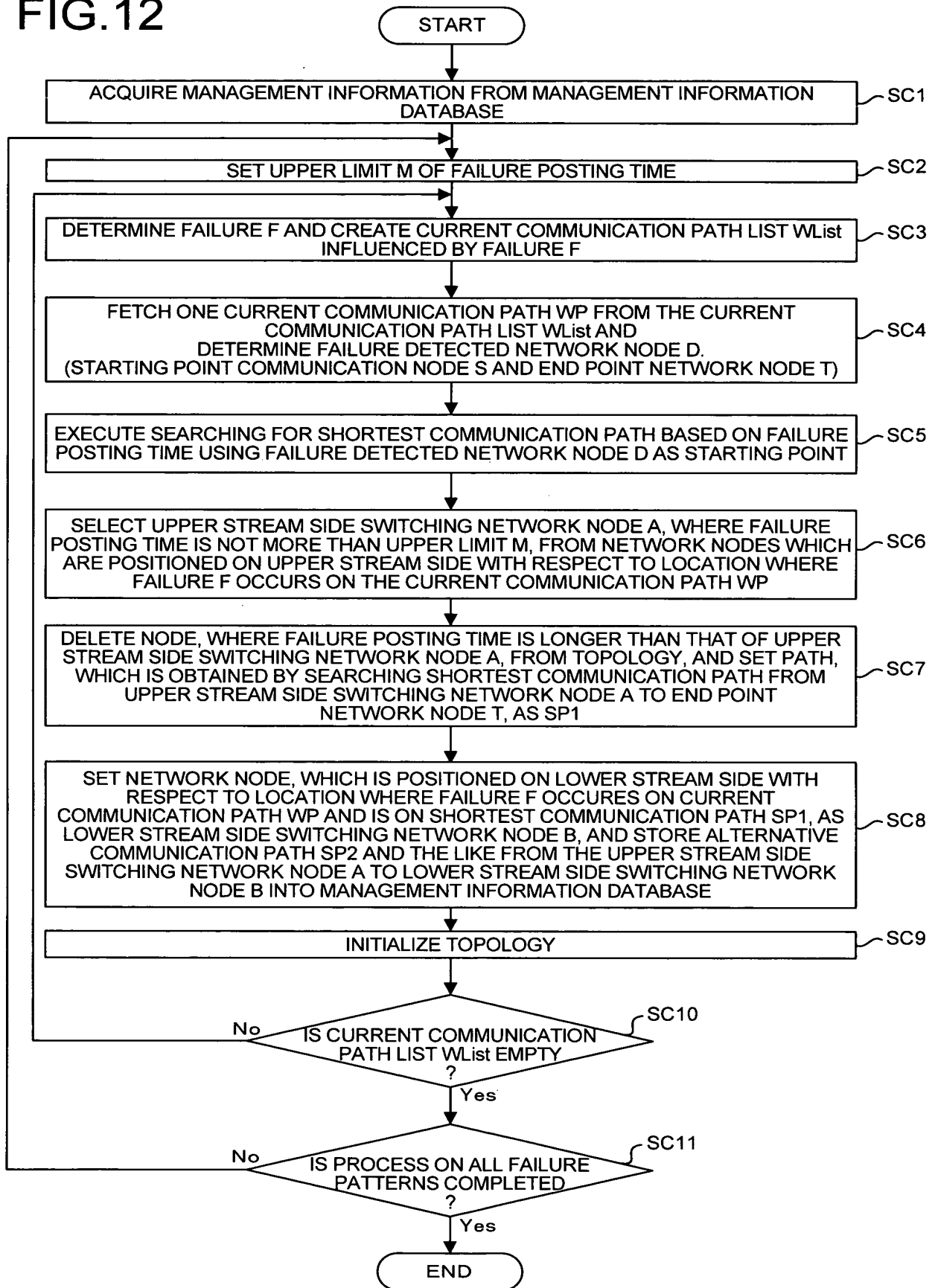


FIG.13

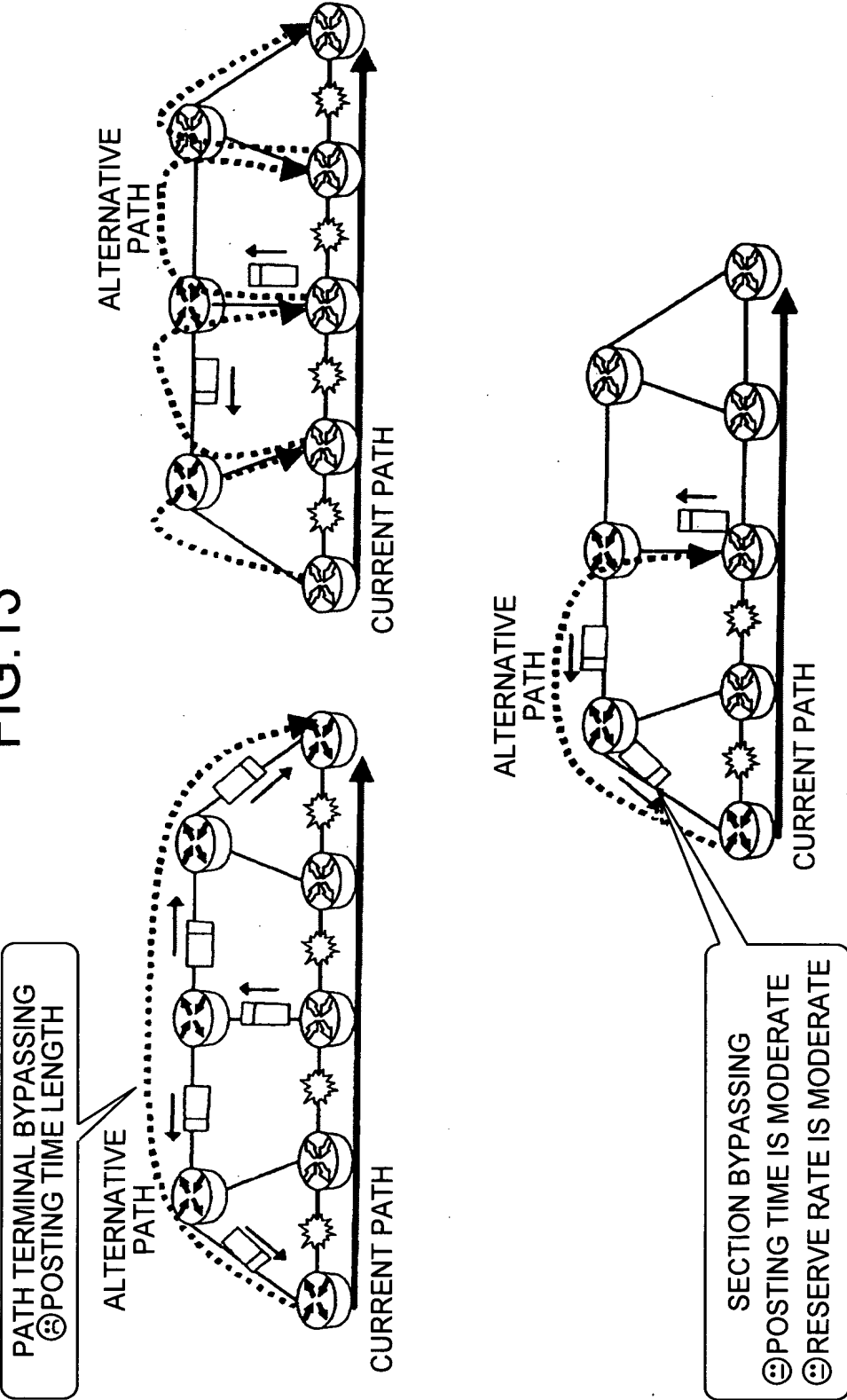


FIG.14

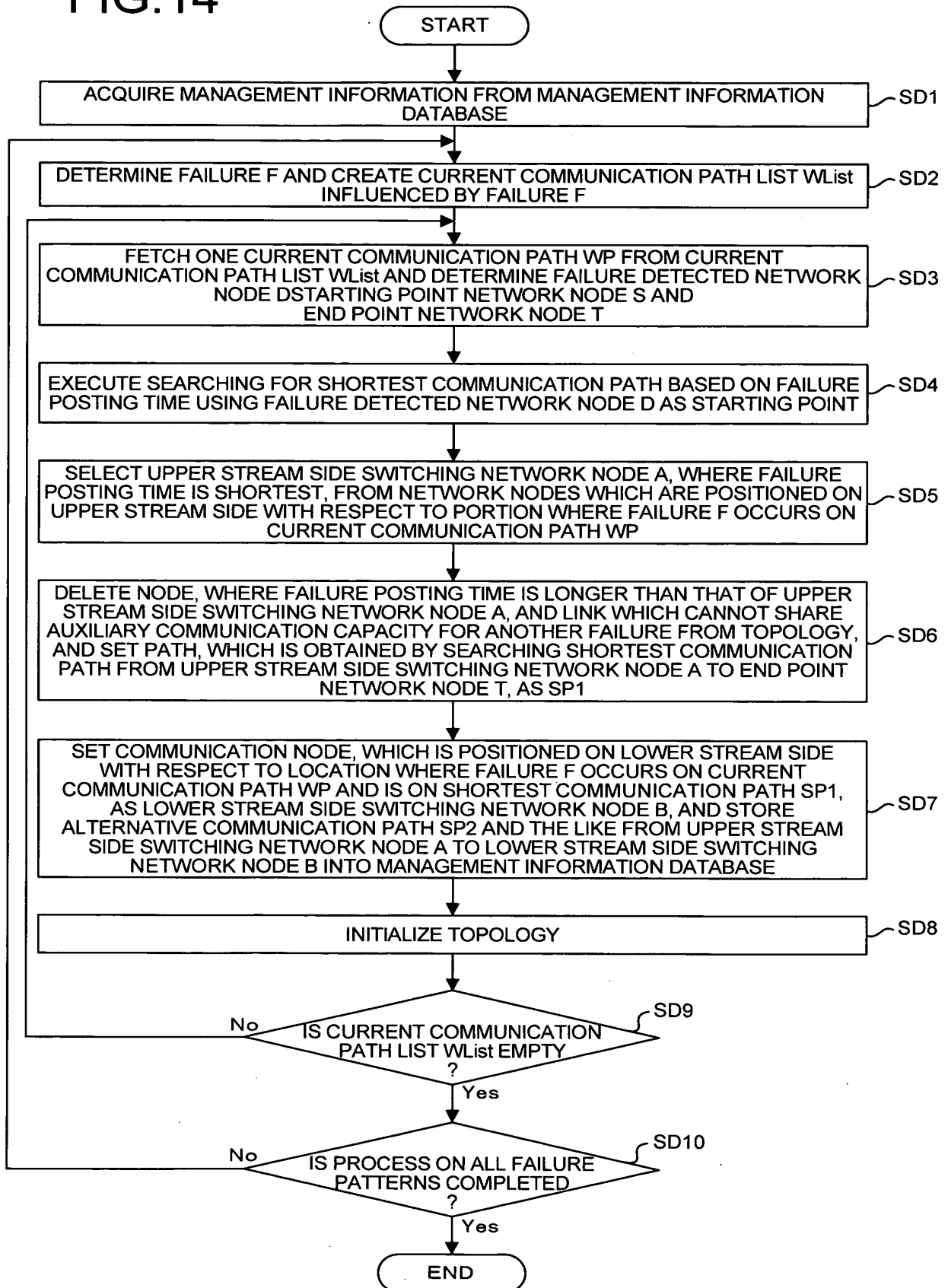


FIG.15

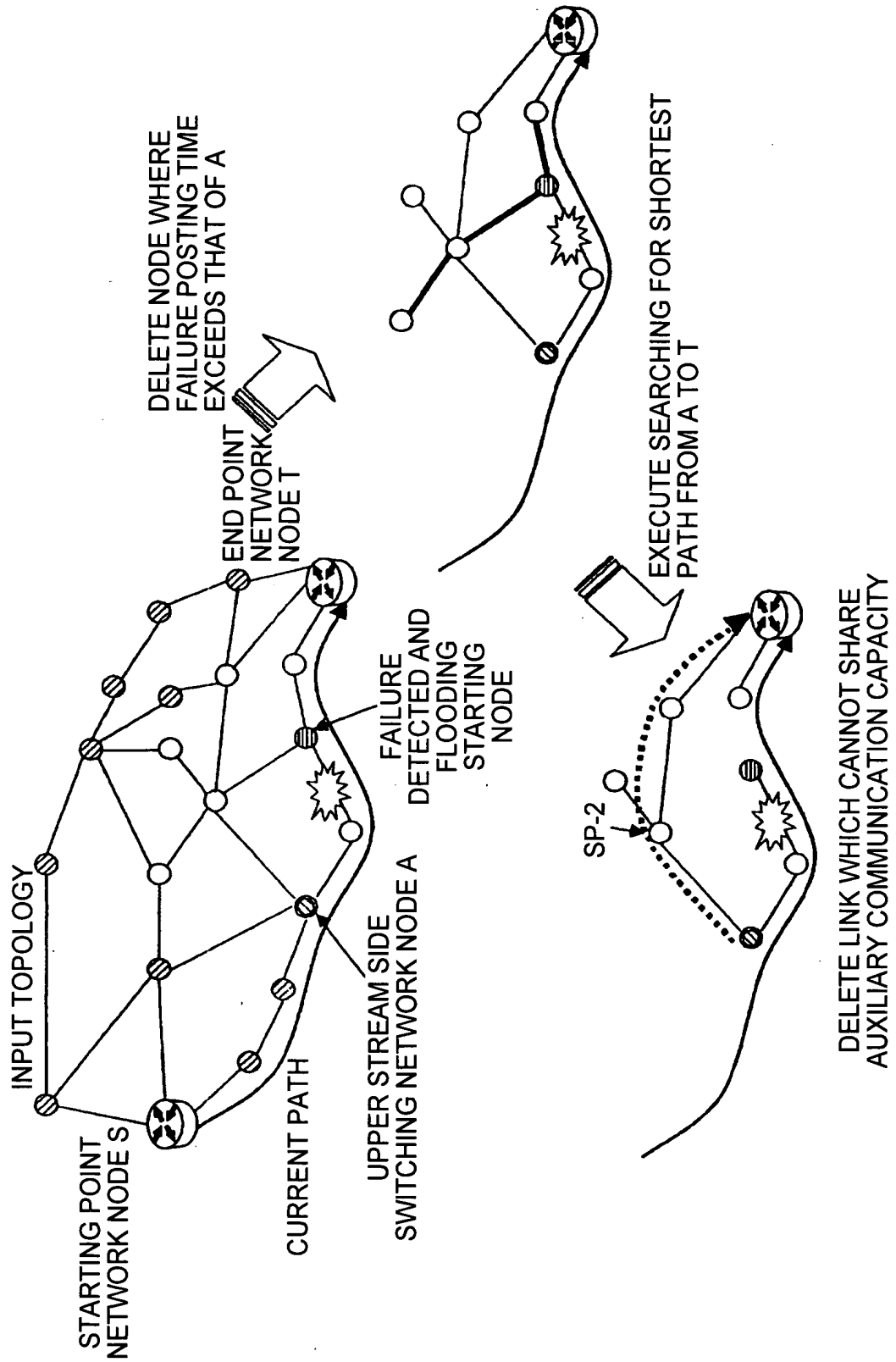


FIG.16

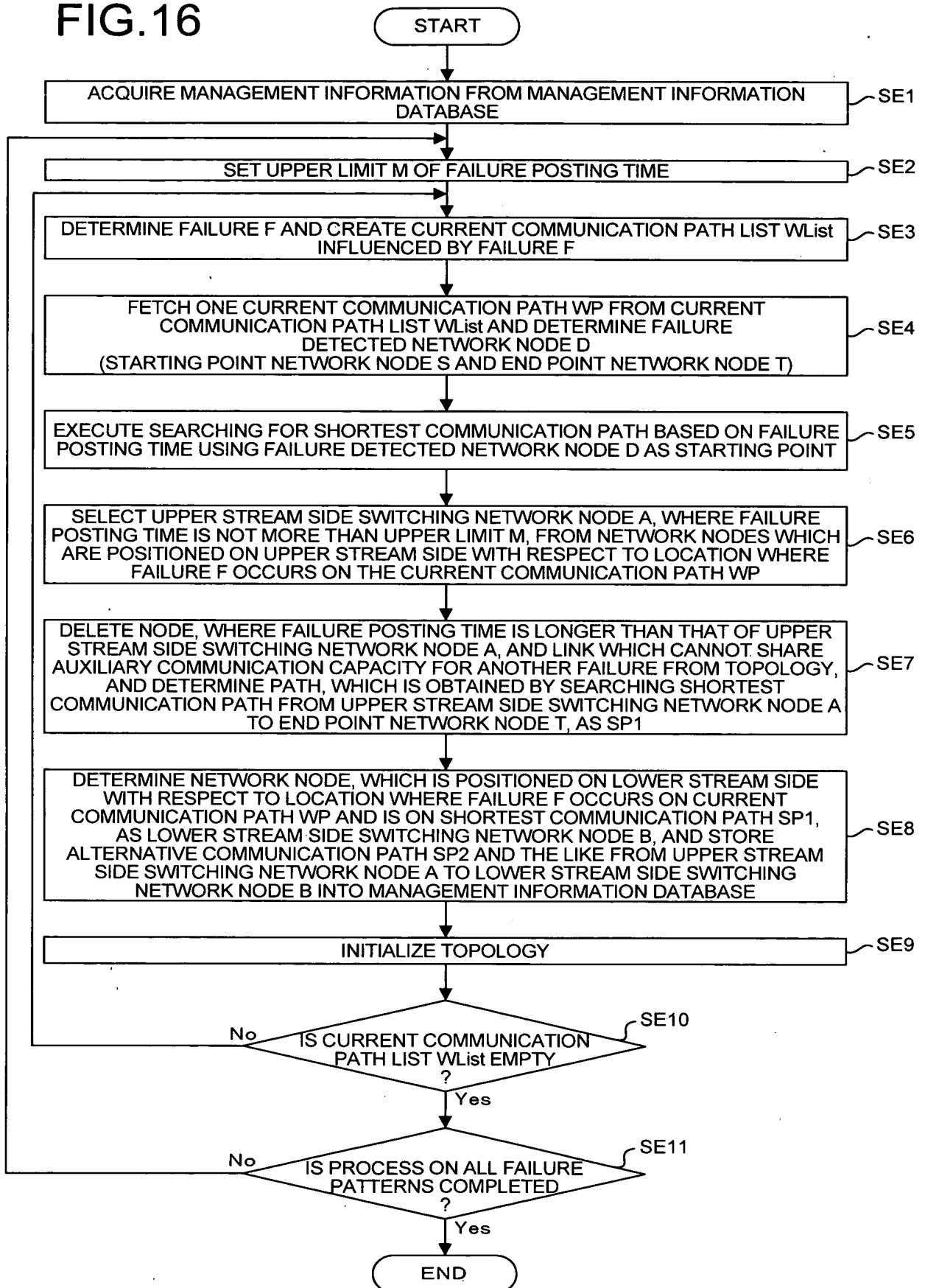


FIG.17

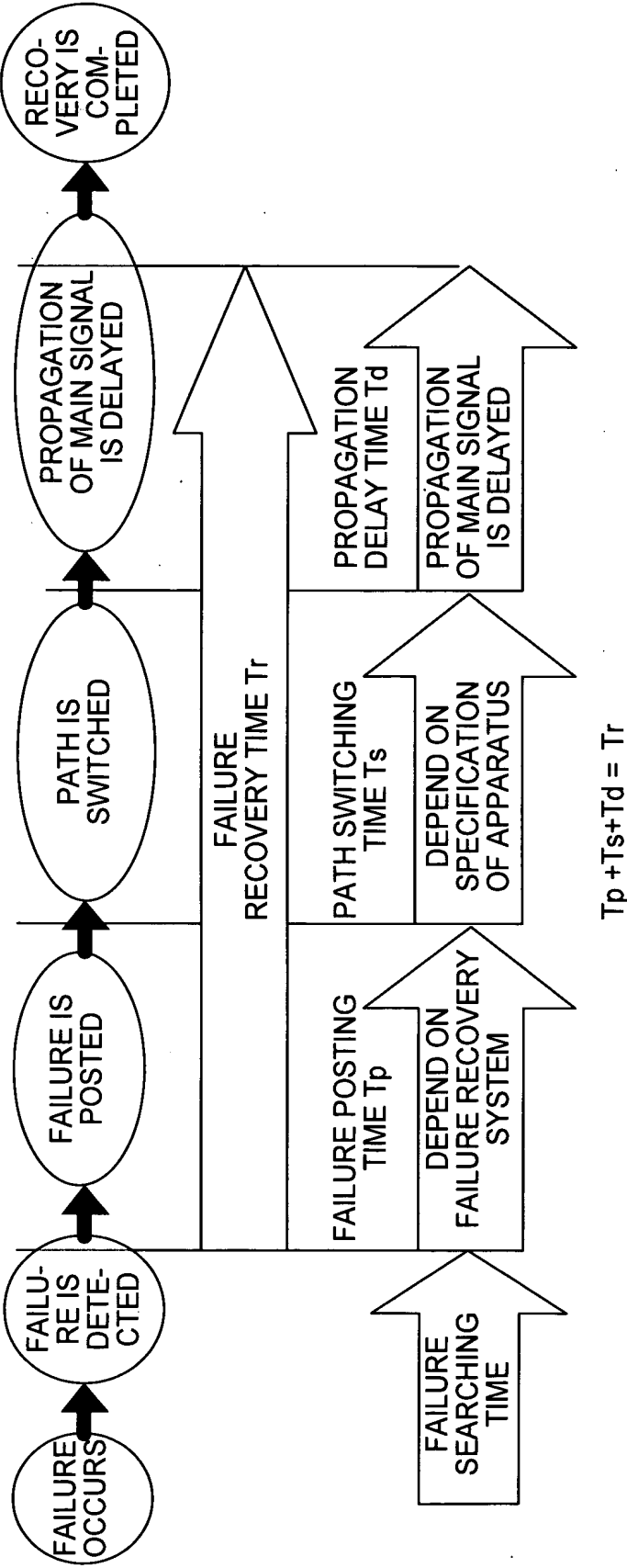


FIG.18

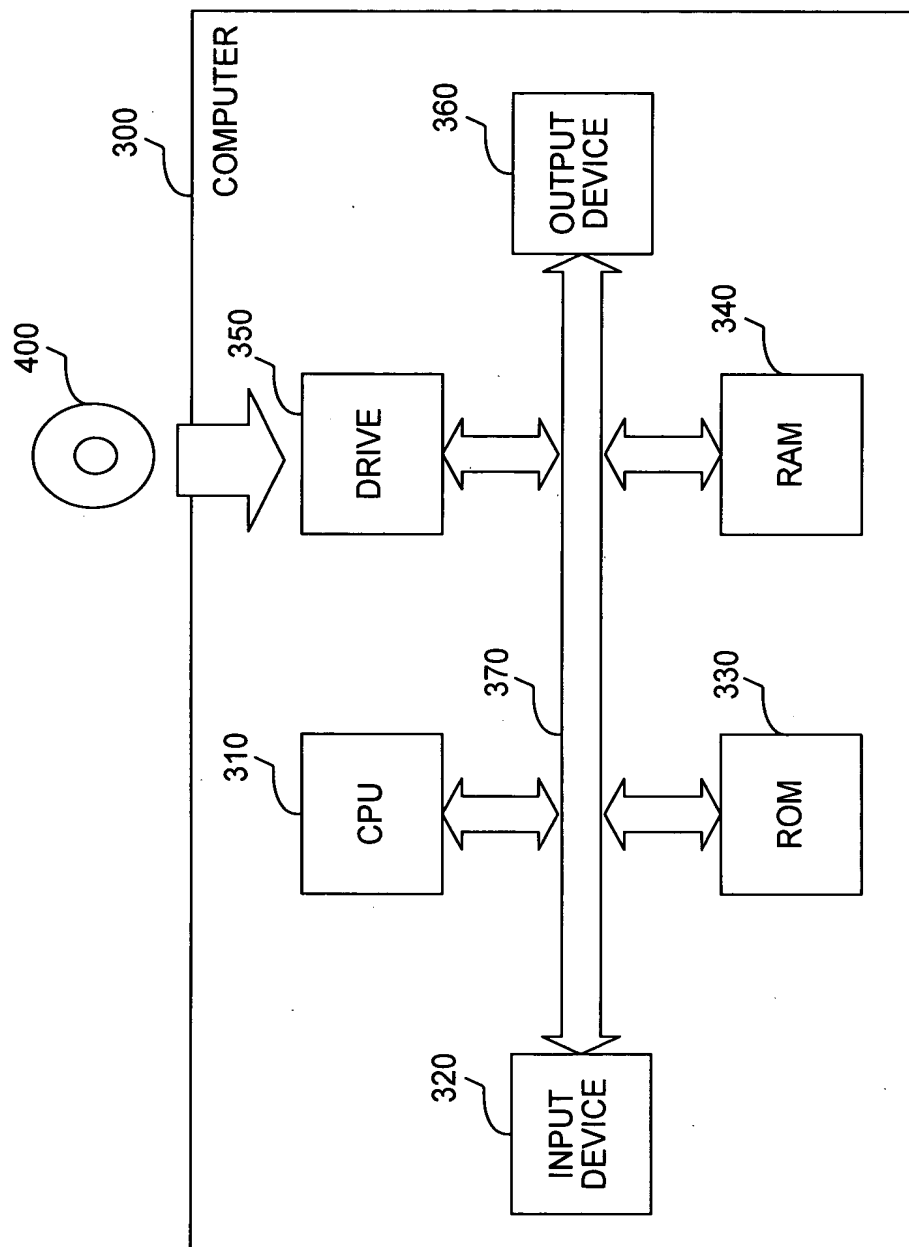




FIG.19

